# Capstone Quiz 1: Data in Excel

TOTAL POINTS 11

1. **As guided through the videos, please make sure that data for all years is saved in Excel format, and in each year of data the variables have been reduced from 99 to 27. Make sure this has been done for all files: 2005, 2007, 2009, 2011, and 2013.**

   **First, let's take a look at the data file for year 2005. You should have a total of 46854 rows in this file (including the header row).**

   **Without doing any 'data cleaning' for 'missing' or 'suspect' data, please calculate the average market value (in $) across all housing units for year 2005, rounding to two decimal places.**

   1 point

   160539.35

2. **Now please delete all housing units in this file that have a VALUE of less than $1000. This should leave you with 30515 rows of data (including the header row). What is the average market value (in $) across all housing units for year 2005, rounding to two decimal places.**

   1 point

   246504.11

3. **Now create a column titled 'VALUE 2007' in this file. Do a merge of the 2007 market value into this 2005 data file. You should be using the CONTROL variable to execute the merge, such that the 2007 data is matched to the 2005 data (you can use the VLOOKUP command for this). Keep only those housing units that have data for both 2005 and 2007. That is, delete all housing units that are not matched across the two data files (units with a #N/A value). Also, to reduce Excel computation time, please copy and paste the 'VALUE 2007' column as 'Values' so that the 'VLOOKUP' formulas get overwritten by the 'Values'.**

   **How many rows (including the header row) does your file now have?**

   1 point

   24538

4. **Using the data file created in Question 3, delete all housing units in this file that have the 'VALUE 2007' of less than $1000. How many rows (including the header row) does your file now have?**

   1 point

   23146

5. **Using the data file created in Question 4, calculate the average market value across housing units for year 2007, rounding to two decimal places.**

   1 point

   278050.49

6. **How much did the market value of the housing unit given by CONTROL number '100101360143' change from 2005 to 2007?**

   1 point

   -7000

7. **Please create a new column labeled DELTA that calculates the difference between value in year 2007 and value in year 2005. For example, a house with 2005 value of 90,000 and 2007 value of 95,000 has a DELTA of 5,000. How many housing units did not change in value from 2005 to 2007 (DELTA of 0)?**

   1 point

   2427

8. **How many housing units increased in value by $36,000 between years 2005 and 2007?**

   **HINT: You can answer this by organizing data in a pivot table.**

   1 point

   26

9. **How many housing units decreased in value from year 2005 to year 2007?**

   1 point

   6620

10. **Excluding 0, which DELTA occurs with the most frequency between years 2005 and 2007?**

    1 point

    50000

11. **Which of the following statements might be a good interpretation of the data for years 2005 and 2007?**

    1 point

    - ○ Between 2005 and 2007, housing units, on average, decreased in value.
    - ◉ Between 2005 and 2007, housing units, on average, increased in value.
    - ○ Between 2005 and 2007, housing units, on average, remained constant in value.

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